

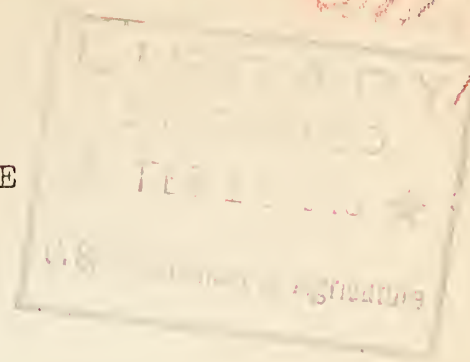
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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
REGION 8



Albuquerque, New Mexico,
November 9, 1939.

Attached is Supplement No. 1 to Re-
gional Bulletin No. 59, Woodland
Series No. 8. These supplements
will be issued from time to time and
it is suggested that they be kept
with the original bulletin.

VOLUME TABLE FOR PINUS EDULIS (PINON)*

by

Joseph Howell, Jr.**

and

Bert Lexen***

Pinon (*Pinus edulis* Engelm.) is found throughout the Southwest in pure stands or in mixtures with one-seed juniper (*Juniperus monosperma* (Engelm.) Sarg.), Rocky Mountain red cedar (*Juniperus scopulorum*, Sarg.) and ponderosa pine (*Pinus ponderosa*, Laws.). The wood of this species is widely used for fuel, mine props, mine ties, fencing, and charcoal, and is occasionally sawn into lumber. The junipers are preferred for fuel as the pinon, when burning, gives off a pitchy, sooty smoke that soon clogs the flues and chimneys.

This pinon exerts a little more effort to form a tree than the juniper, but still may exhibit a sprawling, bushy habit. Trees that have developed in the relatively dense stands are usually single stemmed with a more or less straight trunk and few large side branches while, on the other hand, the open grown tree represents to some extent an old orchard tree. The crown is usually rounded and spreading, being made up of many small and large, crooked branches. The main trunk is short, breaking up into a number of large stems or branches.

The sample trees selected for study were measured in a manner similar to that for one-seed juniper and Rocky Mountain red cedar.

The relationship between diameter breast height and total height with cubic volume was poor and unsatisfactory, whereas correlation between diameter breast height, number of four foot pieces and cubic volume was high and significant. Therefore, an alignment chart was made, using diameter at breast height, number of four foot pieces and cubic volume.

To convert the cubic volume to cords, use 66.54 solid cubic feet to one standard cord. A standard cord contains 52.0% of solid wood. The 584 trees cut yielded 56.95 cords of wood and averaged 0.098 cords of wood per tree. Single trees contained as much as three standard cords of wood.

* This work was performed under a cooperative agreement between the Soil Conservation Service and the Forest Service.

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PINUS EDULIS
(Pinon)

PARTIAL VOLUME IN CUBIC FEET BASED ON DIAMETER IN
INCHES AT BREAST HEIGHT AND NUMBER OF FOUR-FOOT PIECES

Arizona - New Mexico
1939

J. Howell, Jr.

Partial Contents
with Bark
Cubic Feet

D.B.H.
Inches

Cu. Vol.

Four Ft.
Pieces
Number

30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0

Basis 1517 trees, measured by the Soil Conservation Service. Volume - all sticks, 4 ft. long, having a middle diameter of 2 inches or more, outside bark. Volumes computed - Huber's formula. Stump 1.0 foot, not included in volume. Measurements by steel tape. Aggregate Deviation - Table, 1.1% high. Average Percentage Deviation = 25.0%. 66.54 cubic ft. to one standard cord (52.0%).

150
125
100
90
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
1
0.5
0
Cu.Ft.

200
190
180
170
160
150
140
130
120
110
105
100
95
90
85
80
75
70
65
60
55
50
40
30
20
10
0

(Pinus edulis Engelm.)

Partial Volume in Cubic Feet Based on Diameter

In Inches at Breast Height and Number of Four-foot Pieces

Arizona - New Mexico

1939

Partial Contents
with Bark
Cubic Feet

J. Howell, Jr.

Number of 4-foot Pieces																					Basis No. of Trees
Partial Volume - Cubic Feet																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
1	0.14	0.27	0.48	0.70	0.95	1.45														5	
2	0.18	0.35	0.55	0.80	1.05	1.55	1.80													58	
3	0.22	0.42	0.70	0.95	1.25	1.65	2.00	2.25	2.60								6.00			76	
4	0.28	0.48	0.84	1.15	1.50	1.95	2.22	2.50	2.80	3.00							6.50	7.10	8.25	101	
5	0.41	0.60	1.00	1.45	1.80	2.10	2.50	2.80	3.10	3.35	3.75	4.00	4.80	5.50	5.70	6.00	6.40	7.10	8.45	9.00	132
6	0.48	0.77	1.28	1.70	2.00	2.38	2.78	3.00	3.35	3.60	4.00	4.50	5.25	5.70	6.00	6.50	7.00	8.00	9.00	9.50	149
7		0.98	1.54	1.95	2.30	2.78	3.15	3.35	3.65	4.00	4.35	5.05	5.85	6.20	7.00	7.75	8.25	9.10	9.75	10.10	142
8		1.25	2.00	2.35	2.60	3.15	3.50	3.80	4.25	4.60	5.30	5.70	6.25	7.00	8.10	8.90	9.10	9.75	10.40	10.70	131
9		1.68	2.20	2.65	3.05	3.50	3.95	4.15	5.00	5.00	5.80	6.30	7.10	8.50	9.20	9.80	10.00	10.40	11.00	11.30	113
10				3.00	3.50	4.00	4.60	4.95	5.60	5.65	6.50	7.00	8.45	9.35	9.95	10.30	10.55	11.10	11.70	12.10	118
11					4.00	4.60	5.25	5.50	6.00	6.60	8.00	8.45	9.50	10.05	10.60	11.00	11.35	11.90	12.30	12.90	69
12					4.50	5.50	6.00	6.20	7.10	8.20	9.00	9.30	10.30	11.00	11.30	11.70	12.00	12.65	13.00	13.60	44
13						6.10	7.00	7.80	9.00	9.30	10.00	10.50	11.15	12.00	12.65	12.95	13.00	13.50	14.00	14.50	23
14						7.60	8.60	9.30	10.00	10.40	11.00	11.65	12.35	13.00	13.35	13.70	14.00	14.80	15.20	16.00	19
15							10.00		11.20	12.00	12.65	13.00	13.50	14.10	14.80	15.00	15.50	16.40	17.00	17.65	5
16							11.15				13.90	14.40	15.00	16.00	16.35	17.00	17.20	18.10	18.95	19.40	2
17											16.20	16.90	17.85	18.70	19.25	19.40	20.00	21.10	21.75	22.15	3
18											17.15	18.00	19.00	20.00	20.50	21.00	21.35	22.50	23.50	24.10	1
19																		25.35	25.90		
20																					
Basis	93	93	121	99	97	83	77	56	53	52	44	51	35	37	30	49	30	33	30	28	1193

Basis 1517 trees, measured by the Soil Conservation Service. Volume-all sticks, 4 ft. long, having a middle diameter of 2 inches or more, outside bark. Volumes computed-Huber's formula. Stump 1.0 foot, not included in volume. Measurements by steel tape. Aggregate Deviation - Table 1.1% high. Average Percentage Deviation = 25.0%. 66.54 cubic feet to one standard cord (52.0%).

D.B.H. Inches	Number of 4-foot Pieces																				Basis No. of Trees
	Partial Volume - Cubic Feet																				
	22	24	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
5	9.20	10.80	13.00																		0
6	10.00	11.10	13.50	17.65	23.00																1
7	10.55	11.70	14.10	18.50	24.00																10
8	11.15	12.65	14.90	19.20	25.00	30.10															7
9	11.90	13.00	15.60	20.00	26.00	31.00	39.00	46.00	52.60												16
10	12.50	13.70	16.40	21.10	26.75	31.70	40.00	46.80	53.80	59.40	67.50										16
11	13.25	14.35	17.50	22.52	27.80	32.60	40.90	47.30	54.60	60.00	68.10	75.00									34
12	14.00	15.20	18.50	23.40	28.90	33.40	41.90	48.20	55.10	60.90	68.70	76.20	81.45								45
13	15.00	16.40	19.90	25.00	30.00	34.70	43.30	49.00	56.10	62.20	69.50	77.20	82.75								48
14	16.35	18.00	21.20	26.25	31.10	36.00	45.00	50.10	57.20	63.65	71.00	78.10	84.00	91.25							48
15	18.00	19.40	23.40	28.00	32.75	37.50	46.00	51.35	58.40	65.30	73.50	79.15	85.60	93.00							36
16	20.00	21.75	25.50	30.00	34.20	39.20	47.45	54.00	60.00	67.00	76.70	80.65	87.50	94.70							20
17	23.40	25.00	28.45	32.50	37.15	42.20	49.20	56.40	62.60	68.80	78.50	83.15	90.00	97.00	103.90						17
18	24.90	26.10	29.80	33.70	38.30	43.40	50.10	57.40	64.15	69.60	79.15	84.40	91.30	98.60	105.00						11
19			31.10	35.30	40.00	45.20	51.80	58.75	66.00	71.20	80.70	86.00	92.75	100.00	106.60	113.45					4
20				36.10	40.70	45.90	52.90	59.40	66.65	73.50	81.30	86.85	93.80	100.90	107.50	114.30					3
21					41.30	46.35	53.95	60.00	67.10	75.00	81.90	87.70	94.20	101.50	107.80	115.50	122.00				3
22					42.35	46.85	55.00	60.80	67.70	75.90	82.70	88.10	95.00	102.30	108.70	116.60	122.80				4
23						47.45	55.30	61.20	68.00	76.50		88.95	95.40	103.00	109.00	116.50	123.30	127.50			0
24							55.70	61.70	68.30	76.90			95.80	103.70	109.75	117.00	123.80	128.00			1
25							56.00	62.15	68.60				104.00	110.40	117.60	124.20	128.50	132.00			0
26							56.75	62.70	69.00					110.95	118.20	125.00	129.10	132.60			1
27							57.10	64.10							118.70	125.50	129.70	133.00	140.30		0
28															119.10	125.90	130.10	133.50	140.70		0
29																126.30	130.60	134.15	141.50		1
30																126.90	131.20	134.50	142.00		0
Basis	48	23	125	64	24	16	7	3	6	4	4	0	0	1	0	0	0	1	0	0	326

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
REGION 8

Albuquerque, New Mexico
September 23, 1940

Attached is Supplement No. 2 to
Regional Bulletin No. 59, Woodland
Series No. 8. These supplements
will be issued from time to time
and it is suggested that they be
kept with the original bulletin.

ONE-SEED JUNIPER
(*Juniperus monosperma* (Engelm). Sarg.)

Cord Volume Based on Diameter at One
Foot in Makes and Crown Width in Feet.

J. Howell, Jr.		Arizona-New Mexico 1940						Cord Volume With Bark Stand Cords
Dia. at One Foot Inches	Crown Width-Feet							Basis No. of Trees
	5	10	15	20	25	30	35	
Cord-Standard								
2	0.0090	0.0130	0.0219	0.0321				54
3	0.0131	0.0196	0.0256	0.0492				69
4	0.0177	0.0264	0.0454	0.0656	0.0961			78
5	0.0238	0.0356	0.0609	0.1004	0.1402			63
6	0.0301	0.0455	0.0860	0.1336	0.1796			61
7	0.0375	0.0563	0.1101	0.1692	0.2214			48
8	0.0469	0.0727	0.1405	0.2070	0.2757	0.4050		55
9	0.0524	0.0860	0.1582	0.2267	0.3125	0.4605		43
10	0.0581	0.1003	0.1900	0.2640	0.3710	0.5280	0.5970	22
11	0.0637	0.1115	0.1953	0.2913	0.4165	0.5705	0.6560	22
12	0.0719	0.1230	0.2167	0.3202	0.4595	0.6250	0.7150	16
13	0.0820	0.1329	0.2254	0.3455	0.4845	0.6560	0.7500	13
14	0.0915	0.1437	0.2365	0.3780	0.5230	0.7035	0.8050	7
15	0.1008	0.1547	0.2658	0.4182	0.5505	0.7580	0.8480	7
16		0.1663	0.2813	0.4540	0.5900	0.8045	0.8990	5
17		0.1812	0.3122	0.4955	0.6410	0.8515	0.9535	2
18		0.1933	0.3400	0.5253	0.6950	0.8950	0.9960	5
19		0.2128	0.3905	0.5780	0.7690	0.9850	1.095	2
20		0.2320	0.4300	0.6340	0.8210	1.048	1.172	0
21			0.4925	0.7110	0.8950	1.172	1.273	1
22			0.5590	0.8050	0.9960	1.272	1.438	1
23			0.5855	0.8350	1.039	1.368	1.504	0
24			0.6295	0.8910	1.090	1.406	1.600	1
25			0.6555	0.9190	1.132	1.466	1.670	0
26				0.9450	1.189	1.522	1.734	0
27				0.9830	1.220	1.594	1.798	0
28				1.017	1.250	1.663	1.850	0
29				1.043	1.305	1.733	1.929	0
30				1.071	1.343	1.767	2.009	1
31					1.407	1.852	2.087	0
32					1.469	1.930	2.185	0
33					1.483	1.954	2.209	0
34					1.524	2.008	2.265	0
35					1.548	2.023	2.295	0
Basis	69	246	176	56	24	2	3	576

Basis 576 trees, measured by the S.C.S. Volume- all sticks, 4 feet long, having a middle diameter of 2 inches or more, outside bark. Volume by stacking in regular ricks and computing contents. Cordwood only. Cord volume by converting stacked cubic volume. aggregate deviation- Table 0.2% low. Average percentage deviation, 49.3%.

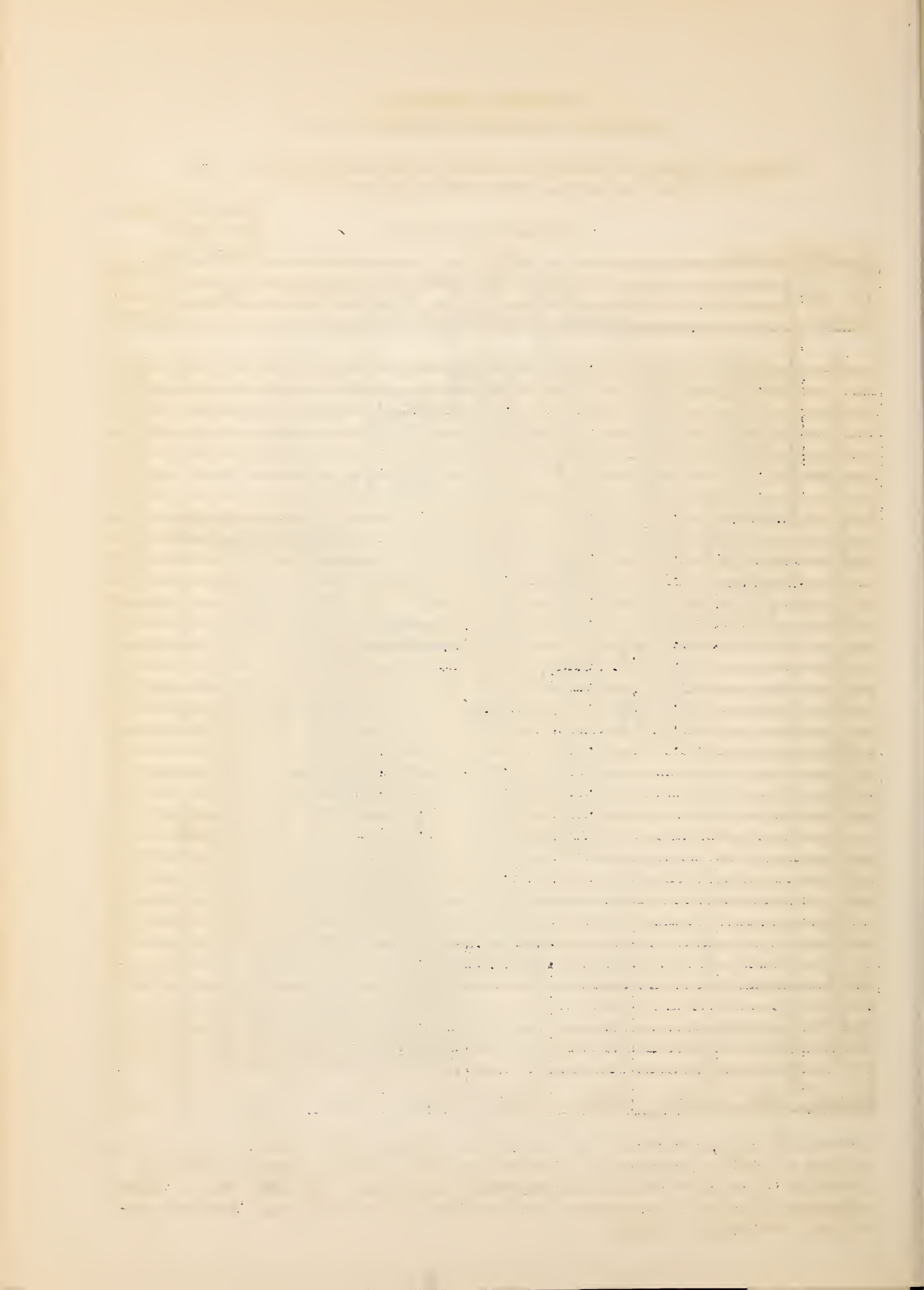
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ONE-SEED JUNIPER
(Juniperus monosperma (Engelm). Sarg.)

Stacked Volume in Cubic Feet Based on Diameter at One Foot
in Inches and Crown Width in Feet

J. Howell, Jr.		Arizona-New Mexico						Stacked Volume
		1940						With Bark
								Cubic Feet
Dia. at One Foot Inches	Crown Width-Feet							Basis No. of Trees
	5	10	15	20	25	30	35	
Stacked Volume-Cubic Feet								
2	1.15	1.66	2.80	4.10				54
3	1.68	2.51	3.27	6.30				69
4	2.27	3.38	5.80	8.40	12.30			78
5	3.05	4.55	7.90	12.85	17.95			63
6	3.86	5.83	11.00	17.10	23.00			61
7	4.80	7.20	14.10	21.65	28.30			48
8	6.00	9.30	18.00	26.50	35.25	51.80		55
9	6.70	11.00	20.25	29.00	40.00	59.00		43
10	7.45	12.85	24.30	33.80	47.50	67.50	76.50	22
11	8.15	14.25	25.00	37.25	53.30	73.00	84.00	22
12	9.20	15.75	27.75	41.00	58.80	80.00	91.50	16
13	10.50	17.00	28.80	44.20	62.00	84.00	96.00	13
14	11.70	18.40	30.30	48.40	67.00	90.00	103.00	7
15	12.90	19.80	33.50	53.50	70.50	97.00	108.50	7
16		21.30	36.00	58.00	75.50	103.00	115.00	5
17		23.20	40.00	63.50	82.00	109.00	122.00	2
18		24.75	43.50	67.20	89.00	114.50	127.50	5
19		27.20	50.00	74.00	98.50	126.00	140.00	2
20		29.70	55.00	81.00	105.00	134.00	150.00	0
21			63.00	91.00	114.50	150.00	163.00	1
22			71.50	103.00	127.50	163.00	184.00	1
23			75.00	107.00	133.00	175.00	192.50	0
24			80.50	114.00	139.50	180.00	200.50	1
25			84.00	117.50	145.00	187.50	215.00	0
26				121.00	152.00	195.00	222.00	0
27				126.00	156.00	204.00	230.00	0
28				130.00	160.00	213.00	237.00	0
29				133.50	167.00	222.00	247.00	0
30				137.00	172.00	226.00	257.00	1
31					180.00	237.00	267.50	0
32					188.00	247.00	280.00	0
33					190.00	250.00	283.00	0
34					195.00	257.00	290.00	0
35					198.00	259.00	294.00	0
Basis	69	246	176	56	24	2	3	576

Basis 576 trees, measured by the S.C.S. Volume- all sticks, 4 feet long, having a middle diameter of 2 inches or more, outside bark. Volume by stacking in regular ricks and computing contents. Cordwood only. Measurements by steel tape. aggregate deviation table 0.2% low. Average percentage deviation, 49.3%.



ROCKY MOUNTAIN RED CEDAR
(*Juniperus scopulorum* (Sarg.))

Stacked Volume in Standard Cords Based on Diameter
at One Foot in Inches and Crown Width in Feet

Arizona-New Mexico
1940

Stacked Volume
With Bark
Cords

J. Howell, Jr.

Dia. at One Foot Inches	Crown Width- Feet								Basis No. of Trees
	5	10	15	20	25	30	35	40	
	Cord Measure								
3	0.0006	0.0016	0.0065						8
4	0.0045	0.0072	0.0143						6
5	0.0059	0.0084	0.0168	0.0205					16
6	0.0073	0.0099	0.0196	0.0234					16
7	0.0104	0.0155	0.0259	0.0324					5
8	0.0134	0.0182	0.0319	0.0516					8
9		0.0207	0.0402	0.0699					8
10		0.0245	0.0687	0.1057	0.1530				3
11		0.0278	0.0922	0.1232	0.1767				3
12		0.0297	0.1053	0.1290	0.1960				3
13		0.0336	0.1157	0.1368	0.2225	0.2718			4
14		0.0398	0.1270	0.1465	0.2500	0.2960			7
15		0.0500	0.1349	0.1547	0.2736	0.3221			2
16			0.1406	0.1610	0.2892	0.3448			3
17			0.1484	0.1779	0.3047	0.3750	0.4415		3
18			0.1563	0.1951	0.3190	0.4064	0.4689		0
19			0.1618	0.2085	0.3419	0.4297	0.5007		0
20				0.2202	0.3520	0.4550	0.5273	0.5690	2
21				0.2300	0.3855	0.4766	0.5545	0.5977	1
22				0.2533	0.4260	0.5213	0.5938	0.6326	0
23				0.2735	0.4580	0.5624	0.6315	0.6815	0
24				0.2893	0.4847	0.5938	0.6640	0.7187	3
25				0.3087	0.5310	0.6285	0.7190	0.7658	0
26					0.5525	0.6500	0.7420	0.7965	1
27					0.6200	0.7030	0.8008	0.8592	0
28						0.7814	0.8750	0.9568	0
29						0.8240	0.9300	1.0000	0
30							0.9725	1.0550	0
Basis	6	39	34	11	8	3	0	1	102

Basis- 102 trees. Measured by the S.C.S. All sticks 4 feet long, having a middle diameter of 2 inches or more, outside bark. Volume by conversion from stacked cubic volume. Cubic volume by stacking in regular ricks and computing contents. Aggregate deviation- Table 1.9% high. Average percentage deviation, 30.5%.

ROCKY MOUNTAIN RED CEDAR
(*Juniperus scopulorum* (Sarg.))

Stacked Volume in Cubic Feet Based on Diameter
at One Foot in Inches and Crown Width in Feet

J. Howell, Jr.		Arizona-New Mexico 1940							Stacked Volume With Bark Cubic Feet	
Dia. at One Foot Inches	Crown Width-Feet								Basis No. of Trees	
	5	10	15	20	25	30	35	40		
	Stacked Volume-Cubic Feet									
3	0.08	0.20	0.82						8	
4	0.57	0.92	1.83						6	
5	0.75	1.08	2.15	2.62					16	
6	0.94	1.27	2.50	3.00					16	
7	1.33	1.98	3.32	4.15					5	
8	1.71	2.33	4.09	6.60					8	
9		2.65	5.15	8.95					8	
10		3.14	8.80	13.50	19.60				3	
11		3.55	11.80	15.75	22.60				3	
12		3.80	13.50	16.50	25.10				3	
13		4.30	14.80	17.50	28.45	34.80			4	
14		5.10	16.25	18.75	32.00	37.90			7	
15		6.40	17.25	19.80	35.00	41.25			2	
16			18.00	20.60	37.00	44.15			3	
17			19.00	22.75	39.00	48.00	56.50		3	
18			19.30	25.00	40.80	52.00	60.00		0	
19			20.00	26.70	43.75	55.00	64.10		0	
20			20.70	28.20	45.30	58.25	67.50	72.80	2	
21				29.40	49.40	61.00	71.00	76.50	1	
22				32.40	54.50	66.70	76.00	81.00	0	
23				35.00	58.60	72.00	80.80	87.20	0	
24				37.00	62.00	76.00	85.00	92.00	3	
25				39.50	68.00	80.40	92.00	98.00	0	
26					70.75	83.20	95.00	102.00	1	
27					79.40	90.00	102.50	110.00	0	
28						100.00	112.00	122.50	0	
29						105.50	119.00	128.00	0	
30							124.50	135.00	0	
Basis	6	39	34	11	8	3	0	1	102	

Basis 102 trees. Measured by the S.C.S. All sticks 4 feet long, having a middle diameter of 2 in. or more, outside bark. Volume by stacking in regular ricks and computing contents. Cord wood only. Measurements by steel tape. Aggregate deviation- Table 1.9% high. Average percentage deviation, 30.5%.

Stacked Volume in Cubic Feet and Standard Cords. Based on
Diameter at One Foot in Inches and Crown Width in Feet.

New Mexico-Arizona

Stacked Volume
with bark
Cubic Feet and
Standard Cords
Crown Width
Feet

Cord Volume	Stacked Cubic Volume - Cubic Feet
1.0	150.0
0.9	
0.8	100.0
0.7	90.0
0.6	80.0
0.5	70.0
0.4	60.0
0.3	50.0
0.2	40.0
0.1	30.0
0.05	25.0
0.01	20.0
0.005	15.0
0.001	10.0
	5.0
	2.0
	1.0
	0.5
	0.1
	0.05

Basis- 102 trees. Measured by the S.C.S. Volume 4 ft. long, having a middle diameter of 2 inches outside bark. Volume by stacking in regular ridges computing contents. Cordwood only. Cord volume by cubic contents. Measurements by steel tape. Agitation- Table 1.9% high. Average Percentage Deviation-

Basis- 102 trees. Measured by the S.C.S. Volume all sticks, 4 ft. long, having a middle diameter of 2 inches or more, outside bark. Volume by stacking in regular ricks and computing contents. Cordwood only. Cord volume by converting cubic contents. Measurements by steel tape. Aggregate Deviation- Table 1.9% high. Average Percentage Deviation, 30.5%.



Juniperus Monosperma
(One-Seed Juniper)

Stacked Volume in Cubic Feet and Standard Cords. Based on
Diameter at One Foot in Inches and Crown Width in Feet.
Arizona-New Mexico

J. Howell, Jr.

1940

Crown Width
Feet

Dia. at
One Foot
Inches

Stacked
Volume
With
Bark
Cubic
Feet
and
Standard
Cords

35.0	3.0	400.0
30.0	2.5	300.0
25.0	2.0	200.0
	1.5	150.0
20.0	1.0	100.0
	0.9	90.0
	0.8	80.0
	0.7	70.0
	0.6	60.0
15.0	0.5	50.0
14.0	0.4	40.0
13.0	0.3	30.0
12.0	0.2	20.0
11.0		18.0
10.0	0.1	16.0
9.0		14.0
8.0	0.05	12.0
7.5	0.04	10.0
7.0		9.0
6.5	0.03	8.0
6.0		7.0
5.5	0.02	6.0
5.0		5.0
4.5	0.01	4.0
4.0		3.0
3.5	0.005	2.5
3.0		2.0
2.5		1.5
2.0		1.0
1.8		0.9
1.6		0.8
1.4		0.7
		0.6
		0.5
		0.4
		0.3
1.2		0.2
	0.001	0.1
1.0		
0.9		

Basis 576 trees,
measured by the
S.C.S. Volume- 20
all sticks, 4
ft. long, having
a middle diameter
of 2 in. or more,
outside bark. 15
Volume by stacking
in regular ricks
and computing con-
tents. Cordwood
only. Cord volume
by converting
cubic contents
measurements 10
by steel tape.
Aggregate Devia-
tion- Table 0.2%
low.
Average Per-
centage Devi-
ation, 49.3%

Pinus Edulis

(Pinon)

Stacked Volume in Cubic Feet and Standard Cords. Based on
Diameter at Breast Height and Number of 4-ft. pieces.

D.B.H. Inches

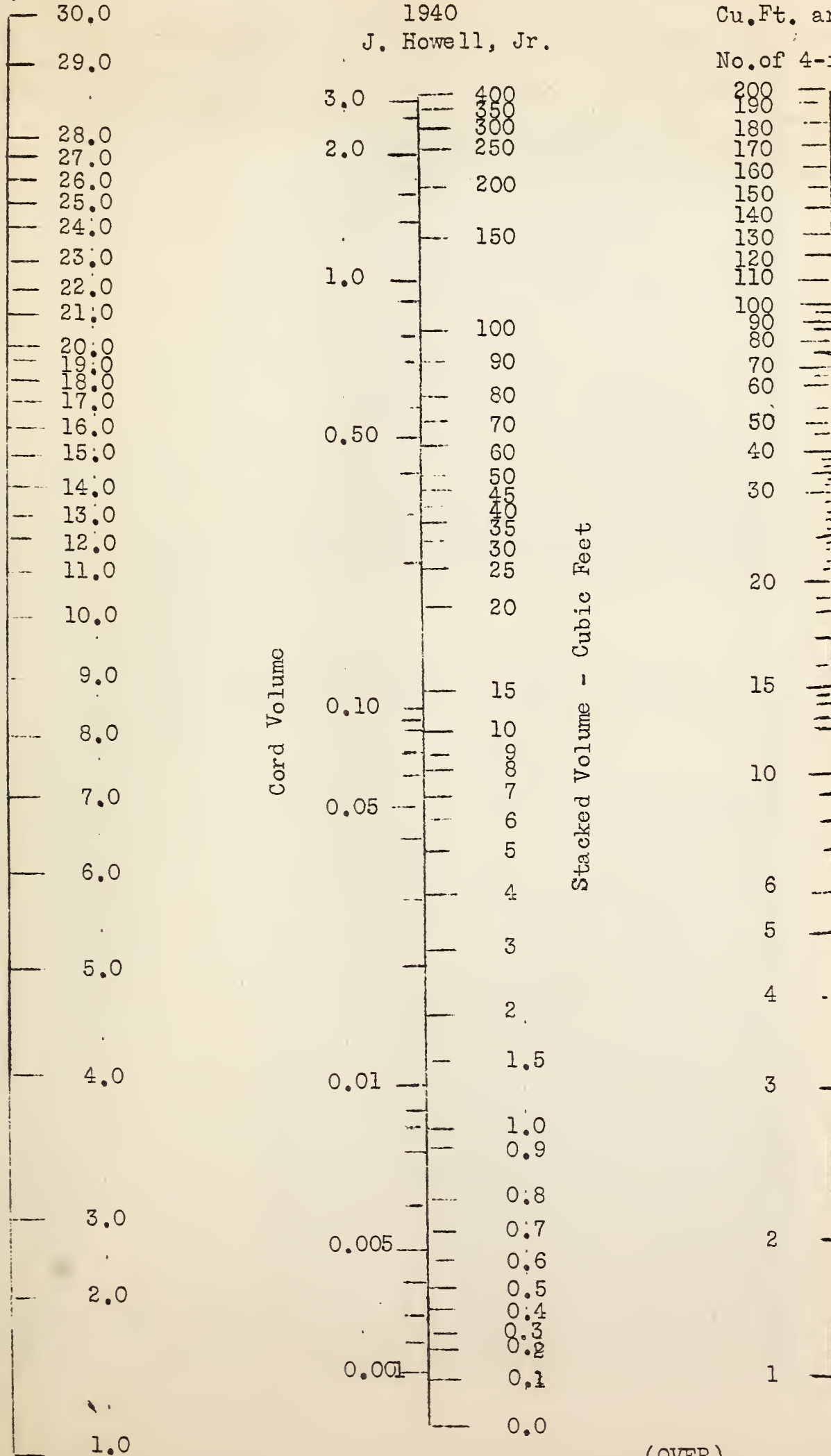
Arizona-New Mexico

Stacked Volume w/Bark
Cu. Ft. and Stand. Cords.

1940

J. Howell, Jr.

No. of 4-ft. Pieces



(OVER)

Bases- 551 trees. Measured by the S.C.S. Volume- All sticks 4-feet long, having a middle diameter of 2 inches or more, outside bark. Volume by stacking in regular ricks and computing contents. Cord-wood only. Cord volume by converting stacked cubic volume. Aggregate Deviation- Table 1.7% high. Average Percentage Deviation, 25.5%.